

# Joint Fire Science Program 2005 Projects

## Administrative Studies, Demonstration Sites, and Local Needs Projects

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### Title

**Comparison of Live Fuel Moisture Sampling Methods for Big Sagebrush (*Artemisia Tridentata* spp.) in Utah.**

### Primary Contact

Pollet, Jolie

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### Collaborators

Utah State Office

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### Title

**Comprehensive Fire Effects of Biomass Reduction and Fire for Fuels and Ecosystem Enhancement on a First-Order Watershed in the Southeastern Wildland-Urban Interface.**

### Primary Contact

Trettin, Carl

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### Collaborators

Francis Marion and Sumter National Forests  
Southern Research Station

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### Title

**Delayed Tree Mortality Following Fire in Western Conifers.**

### Primary Contact

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### Collaborators

Region 5  
RMRS, Fire Sciences Lab  
Rocky Mountain Research Station

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### Title

**Does Prescribed Burning in Southern Forests Release Significant Amounts of Mercury to the Atmosphere?**

### Primary Contact

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### Collaborators

Southern Research Station  
Southern Research Station, Forestry Sciences Laboratory

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### Title

**Effect of Brush Mastication on the Belowground Mycorrhizal Community in a Mixed Hardwood Chaparral.**

### Primary Contact

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### Collaborators

Department of Biology

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### Title

**Effects of Fuel Treatments and Wildfire on the Avifauna of the Pine Rockland Ecosystem in Southern Florida.**

### Primary Contact

Slater, Gary L.

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### Collaborators

Everglades National Park

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### Title

**Effects of Fuels/Fire Risk Reduction Treatments Using Hydro-Mow or Thinning on Pinyon-Juniper Ecosystem Components Within the Wildland-Urban-Interface.**

### Primary Contact

Gottfried, Gerald

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### Collaborators

Rocky Mountain Research Station

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### Title

**Evaluate Treatments to Reduce Hazardous Fine Fuels Created by Non-Native Plants in Zion Canyon.**

### Primary Contact

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### Collaborators

Lake Mead National Recreation Area  
Western Ecological Research Center  
Zion National Park

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### Title

**Evaluating Postfire Seeding Treatments Designed to Suppress Cheatgrass (*Bromus Tectorum*) in Ponderosa Pine Forests on the Colorado Plateau.**

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Brooks, Matthew L.

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**Phone:** (702) 564-4615

### Collaborators

Grand Canyon-Parashant National Monument  
Lake Mead National Recreation Area  
Western Ecological Research Center

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### Title

**Evaluating the Effects of Pinyon Juniper Thinning Treatments at a Wildland/Urban Interface**

### Primary Contact

Brooks, Matthew L.

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### Collaborators

Bishop Field Office  
Rocky Mountain Research Station  
Western Ecological Research Center

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### Title

**Fire and Forest History at Mount Rushmore National Memorial: Application and Demonstration of Fire Science.**

### Primary Contact

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### Collaborators

Black Hills Station, Mount Rushmore National Memorial  
Mount Rushmore National Memorial  
Northern Great Plains Ecoregion

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### Title

**Fuel Reduction and Restoration of Pine/Hardwood Ecosystems Severely Impacted By the Recent Southern Pine Beetle (*Dendroctonus Frontalis*) Epidemic in the Southern Appalachians.**

### Primary Contact

Vose, James M.

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### Collaborators

Southern Research Station

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### Title

**Impacts of Post-Fire Salvage Logging and Wildfire Burn Intensity on Soil Productivity and Forest Recovery.**

### Primary Contact

Smith, Jane E.

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### Collaborators

Pacific Northwest Research Station

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### Title

**Injury and Mortality Risks from Wildland Fire Smoke and Heat Exposures for Endangered Indiana Bats (*Myotis Sodalis*) in Maternity Roosts.**

### Primary Contact

Dickinson, Matthew

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### Collaborators

Northeast Research Station

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### Title

**Management Options to Control Exotic Invasive Plant Species in Association with Fuel Reduction Treatments in Wildland Urban Interface.**

### Primary Contact

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### Collaborators

Okanogan-Wenatchee National Forest  
Pacific Northwest Research Station

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### Title

**Masticated Fuel Beds: Custom Fuel Models, Fire Behavior, and Fire Effects**

### Primary Contact

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### Collaborators

Pacific Southwest Research Station  
Pacific Southwest Research Station, Silviculture Lab  
Western Ecological Research Center

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### Title

**Mid and Long Term Responses by Vertebrate Communities and Vegetation Structure to Fire History in Mountain Big Sagebrush.**

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Robinson, Douglas W.

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### Collaborators

Pacific Regional Office  
Sheldon-Hart Mountain National Wildlife Refuge Complex  
Terrestrial Ecology Division

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### Title

**OK-FIRE: A Weather-Based Decision Support System for Wildland Fire Managers in Oklahoma.**

### Primary Contact

Carlson, J.D.

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### Collaborators

Plant and Soil Sciences Department

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### Title

**Post-Fire Studies Supporting Computer-Assisted Management of Fire and Fuels During a Regime of Changing Climate in the Alaskan Boreal Forest.**

### Primary Contact

Rupp, Scott

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### Collaborators

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### Title

**Predicting Burn Severity in the Gila Wilderness, New Mexico: Meeting Local Need for Assessing the Potential Impact of Fire on Fish and Streams.**

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### Collaborators

Rocky Mountain Research Station

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### Title

**Predicting Post-Fire Regeneration Needs: Spatial and Temporal Variation in Natural Regeneration in SW Oregon and N California.**

### Primary Contact

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### Collaborators

Eugene District Office  
Oregon/Washington State Office

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### Title

**Red Mountain Mastication Study.**

### Primary Contact

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### Collaborators

Adaptive Mangement Services Enterprise Team

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### Title

**Reducing Wildfire Risk by Integration of Prescribed Burning and Biological Control of Invasive Saltcedar (Tamarix spp).**

### Primary Contact

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**Phone:** (702) 564-4615

### Collaborators

Lahontan Basin Area Office  
Western Ecological Research Center  
Winnemucca Field Office

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### Title

**Response of Birds, Butterflies, and Their Habitats to Management of Wildland Fuels and Fire Regimes.**

### Primary Contact

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### Collaborators

Humboldt-Toiyabe National Forest  
Rocky Mountain Research Station

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### Title

**Restoration-Based Fuel Reduction Recommendations for Mixed-Pine Forests of Upper Michigan.**

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### Collaborators

School of Natural Resources  
Seney National Wildlife Refuge

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### Title

**Riparian Fuels Treatments in the Applegate River Subbasin.**

### Primary Contact

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### Collaborators

Medford District

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### Title

**The Effect of Wildfire on Nitrogen Dynamics Within Headwater Ecosystems.**

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### Collaborators

Department Biological Sciences  
Forest Resources Department  
Lowman Ranger District

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### Title

**The Impact of Prescribed Fire and Season of Burn on Amphibian and Reptile Biodiversity Patterns in Northern Longleaf Ecosystem Restoration.**

### Primary Contact

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### Collaborators

Talladega National Forest-Oakmulgee

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#### Title

**Why Burning Brings Beetles: Fire-Bark Beetle Interactions.**

#### Primary Contact

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#### Collaborators

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